



S/N 09/577,805

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Thomas T. Hansen et al.	Examiner:	Judson Jones
Serial No.:	09/577,805	Group Art Unit:	2834
Filed:	May 24, 2000	Docket:	1063.004US1
Title:	HIGH POWER ULTRASONIC TRANSDUCERS		

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Commissioner for Patents
Washington, D.C. 20231

Applicant has reviewed the Office Action mailed on August 29, 2001. Please amend the above-identified patent application as follows.

This response is accompanied by a Petition, as well as the appropriate fee, to obtain a one-month extension of the period for responding to the Office action, thereby moving the deadline for response from November 29, 2001 to December 29, 2001.

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IN THE SPECIFICATION

Please make the paragraph substitutions indicated in the appendix entitled Clean Version of Amended Specification Paragraphs. The specific changes incorporated in the substitute paragraphs are shown in the following marked-up versions of the original paragraphs:

Please amend the first complete paragraph on page 26 beginning on line 10 as follows:

The construction of the outer and inner cooling fixtures 142 and 156 [form] from an electrically insulating [of] dielectric material further serves to enhance the operating efficiency of the motor assembly 41. Deleterious eddy currents from the high frequency magnetic field generated by the drive coil 51 are not produced in the cooling fixtures 142 and 156. Eddy currents can disrupt the intensity of the ac magnetic field extending through the drive rod 42. Such undesirable eddy currents are also not generated in the nonconductive cooling fluid of the ultrasonic transducer 21. In addition, the fixtures 142 and 156 are good heat conductors and thus enhance the transfer of heat from the various components in the motor section of the ultrasonic transducer 21 to the cooling fluid. The dielectric material of the cooling fixtures 142 and 156 further protects against electrical shorts within the transducer 21.